



August 6, 2012

Bob Bliss, CIH
GSA Northwest /Artic Region
400 15th St. SW
Auburn, WA 98001

RE: **Asbestos Survey Report
Former Federal Reserve Bank
1015 Second Ave
Seattle WA 98104
(Project # GSANW30630)**

Dear Mr. Bliss,

Attached is the RGA Environmental Asbestos Survey Report for the former Federal Reserve Bank branch in Seattle, WA.

We appreciate the opportunity to have been of service to you. If you have any questions regarding this report feel free to contact me at (206) 281-8858.

Sincerely,

A handwritten signature in black ink that reads "Eric Hartman".

Eric Hartman, CIH
Project Manager
RGA Environmental, Inc.



Asbestos Survey Report

**Former Federal Reserve Bank
1015 Second Ave
Seattle WA 98104**

Project No. GSANW30630


Prepared for:

Bob Bliss, CIH
GSA Northwest /Artic Region
400 15th St. SW
Auburn, WA 98001

Prepared by:

RGA Environmental, Inc.
1730 Minor Avenue, Suite 900
Seattle, WA 98101
206-281-8858

August 6, 2012

Report prepared by:  Emily Kahler
Industrial Hygienist

Report reviewed by:  Eric Hartman, CIH
Senior Project Manager

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1.0 BACKGROUND

On June 11 and 12th, John McCaslin and Emily Kahler of RGA Environmental, Inc. (RGA) conducted a limited asbestos-containing materials survey at the above-captioned location. Mr. McCaslin and Ms. Kahler are Asbestos Hazard Emergency Response Act (AHERA) certified building inspectors (Certificate #'s 12-0923; 12-0482 Expiration Dates 5/10/2013; 4/9/2013). This sampling was conducted to update existing data from 1993 on the presence and location of asbestos in materials located in the building. This sampling was requested and access to the site was granted by Bob Bliss of GSA Northwest.

The building located at 1015 Second Ave is a 4 story building with a penthouse and two basement levels. The former Federal Reserve building consists of a concrete foundation with sandstone and marble exterior cladding. Structural walls are steel frame. Interior finishes are CMU block, brick, plaster and gypsum wallboard walls, with vinyl floor tile, carpet, ceramic tile or bare concrete floors. Floors 3 and 4 were completely remodeled and sections of all other levels were remodeled since the previous survey performed in 1993 by Environmental Control Science, Inc. Areas of seismic and structural reinforcement are noted on the attached sample location drawing.

2.0 EXECUTIVE SUMMARY

2.1 Inspection Findings

See Table 1 below for a summary of the asbestos containing materials located during the survey. See Table 2 below for a summary of the materials assumed to contain asbestos located during the survey.

Table 1 - Summary of Asbestos-Containing Materials located at 1015 Second Ave

Material Description (Homogeneous Material)	Location	Asbestos Content	Approximate Quantity	Removal Estimate ¹
Mastic associated with 2" covebase (various colors)	1 st and 2 nd Floors	Brown Adhesive: <1% Tremolite	3,000 LF	\$15,000.00
Block material in bus bar assembly	Basement	50 - 60% Chrysotile	180 SF / 615 LF	\$550.00
Asbestos lining in fire doors	Throughout	70 - 80% Chrysotile	60 EA	\$6,000.00 ²
CAB panels behind wall heater units	1 st Floor / 2 nd Floor	40 - 50% Chrysotile	92 EA (15 SF panels)	\$6,900.00 ³
Amosite contamination on overhead grid	Ground Floor – Above Security Office / Cash Area	60 - 70% Amosite 5 - 10% Chrysotile 2 - 5% Crocidolite	12,000 SF	\$180,000.00 ⁴
CAB panels	Ground Floor – Pistol Range – N End	40 - 50% Chrysotile	45 SF	\$150.00
VAT w/ mastic	1 st Floor / 2 nd Floor	VAT: 1 - 3% Chrysotile Mastic: 3 - 7% Chrysotile	26,600 SF	\$43,900.00

¹ Cost Estimate is rough order of magnitude cost for abatement of the material, assuming all materials are abated at the same time. Actual costs will vary based on economic conditions at the time of actual abatement including time of year, inflation, and other economic variables.

² Assumes intact removal of fire doors

³ Includes cost of selective demolition to access material

⁴ Includes removal of contaminated components such as support wires, grids, framework, etc

Material Description (Homogeneous Material)	Location	Asbestos Content	Approximate Quantity	Removal Estimate ¹
Aircell insulation on hot water lines	1 st Floor / 2 nd Floor / Mezzanine	60 - 70% Chrysotile	7,000 LF	\$91,000.00 ⁵
Magnesia cement elbow on hot water lines	1 st Floor / 2 nd Floor / Mezzanine	5 - 10% Amosite 1 - 3% Chrysotile	1,700 EA	\$25,500.00 ⁶
CAB Panel	Mezzanine – Elevator Machine Room	40 - 50% Chrysotile	4 SF	\$25.00
Roofing Felt	1 st Floor – Roof Canopy / 2 nd Floor Roof / Main Roof	10% Chrysotile	18,000 SF	\$72,000.00

Table 2 - Summary of Assumed Asbestos Containing Materials located at 1015 Second Ave

Material Description	Location	Asbestos Content	Approximate Quantity	Removal Estimate
Tan ceramic floor tile w/ grout & mortar	4 th Floor Cafeteria Entry/ Freight Elevator Lobby	Assumed	620 SF	\$2,200.00
Variegated ceramic floor tile w/ grout & mortar	4 th Floor Restrooms	Assumed	512 SF	\$1,800.00
Variegated ceramic wall tile w/ grout & mastic	4 th Floor Restrooms	Assumed	1580 SF	\$5,500.00
Variegated ceramic wall tile w/ grout & mastic	4 th Floor Kitchen	Assumed	850 SF	\$2,975.00
Variegated ceramic floor tile w/ grout & mortar	4 th Floor - Kitchen/Serving	Assumed	1200 SF	\$4,200.00
Blue/grey ceramic floor tile w/ grout & mortar	Restrooms	Assumed	1147 SF	\$4,000.00
Variegated ceramic wall tile w/ grout & mastic	3 rd Floor	Assumed	1970 SF	\$6,900.00
Mastic behind mirrors	Restrooms - Throughout	Assumed	320 SF	\$500.00 ⁷
Black vibration damper	3 rd Floor- Sorters	Assumed	3 EA	\$300.00
Vault Doors	Throughout	Assumed	3 EA	\$3,000.00
Variegated tan ceramic floor tile w/ grout & mortar	Janitor and Restrooms	Assumed	2315 SF	\$8,100.00
Yellow ceramic wall tile w/ grout & mastic	2 nd Floor - Janitor and Restrooms	Assumed	11,120 SF	\$38,900.00
Black vibration damper	Penthouse – Fan Room HVAC	Assumed	5 EA	\$500.00
Beige cloth vibration damper	Penthouse – Fan Room HVAC	Assumed	2 EA	\$200.00
Gray/beige streak 12" vinyl floor tile w/ mastic	Stairwell Landings	Assumed	234 SF	\$400.00
Variegated ceramic floor tile w/ grout & mortar	1 st floor – Entry / Teller Line	Assumed	1697 SF	\$5,950.00
Black vibration dampers	Ground Floor – NW Mechanical Room	Assumed	1 EA	\$100.00
White ceramic wall tile w/ grout & mastic	Ground Floor – NE Restrooms	Assumed	1780 SF	\$6,200.00

⁵ Includes selective demolition to access lines concealed in walls/ceilings/chases, assumes wrap and cut abatement method

⁶ Includes selective demolition to access lines concealed in walls/ceilings/chases, assumes wrap and cut abatement method

⁷ Includes selective demolition to access material

Material Description	Location	Asbestos Content	Approximate Quantity	Removal Estimate
18" gray vinyl floor tile with mastic	Ground Floor – Firing Range Lockers	Assumed	154 SF	\$250.00
12" beige streak vinyl floor tile with mastic	Ground Floor – Main Vault / Basement – Aux. Vault	Assumed	4800 SF	\$7,900.00
Black vibration dampers	Basement – Chiller /Room	Assumed	2 EA	\$200.00
White ceramic wall tile w/ grout & mastic	4 th Floor – Elevator Lobby	Assumed	675 SF	\$2,350.00
Sprayed-on fireproofing (original)	2 nd & 1 st Floors except seismic retrofit zones; mezzanine	Assumed, reported to contain amosite	22,600 SF	\$508,500.00 ⁸

Total Estimate of Abatement Cost -- \$1,051,950.00

The full scope of sampling is presented in Section 3.

Extreme caution should be used during any demolition or renovation activities to ensure that additional materials are not uncovered during demolition or renovation work at the former Federal Reserve Building. In the event that additional materials are discovered, the materials should be sampled and analyzed to determine if it contains asbestos prior to disturbance.

Asbestos-containing materials are required to be removed and disposed of in accordance with Washington State Regulations prior to any demolition, renovation, or remodeling that would disturb these materials. Washington State Department of Labor and Industries and PSCAA require that the abatement be performed using Certified Asbestos Workers under the direct on-site supervision of a Certified Asbestos Supervisor.

2.2 Regulations

The intent of the asbestos survey is to comply with governing asbestos regulations required by the State of Washington and Puget Sound Clean Air Agency (PSCAA). The State of Washington requires a written "good faith inspection" for identification of asbestos-containing materials prior to any remodeling, maintenance, or demolition work. During demolition and construction work, it is the responsibility of the owner and the contractors to make this survey document available to all concerned parties who may be handling the building materials.

Additionally, PSCAA requires that a copy of the written asbestos survey be made available on-site for inspection by a PSCAA Control Officer during construction and demolition work. The survey is required to be performed in accordance with 40 CFR 763.86. These federal standards require inspections to be conducted by an EPA/AHERA accredited building inspector with analysis to be provided by an asbestos laboratory accredited by the National Bureau of Standards. The requirements are described in Article 1 and Article 4 of PSCAA's Asbestos Control Standards. All survey work was conducted in compliance with the above mentioned standards.

⁸ Includes selective demolition to access material

3.0 SUMMARY OF BULK SAMPLING

Tables 3 and 4 (below) contain an inventory of the building materials sampled for asbestos at the former Federal Reserve Branch in Seattle, WA. The location column identifies all locations on the roof where the homogenous materials were identified. Actual sample locations are identified in the attached sample location figure. Bolded items are confirmed asbestos-containing materials.

The objective of the survey was to determine the quantity and location of building materials that contain asbestos.

Table 3 - Building Materials Sampled for Asbestos at 1015 Second Ave

Sample ID	Material Description	Location	Asbestos Content	Friability
GSA-01A, -01B	Mastic associated with metal wall panels	4 th Floor – Cafeteria	No Asbestos Detected	Non-Friable
GSA -02A, -02B	Mastic associated with grey carpet squares	4 th Floor – Cafeteria	No Asbestos Detected	Non-Friable
GSA-03A, -03C	2'X2' suspended ceiling tile – white random holes	Throughout remodeled areas	No Asbestos Detected	Friable
GSA-04A through -04G	Gypsum wallboard with joint compound	Throughout remodeled areas	No Asbestos Detected	Friable
GSA-05A through -05F	Gray sprayed-on fireproofing	4 th Floor – Beams & Pandeck / 3 rd Floor – Columns / 2 nd & 1 st Floors – Seismic Repair Areas / Ground Level – Above Firing Range / Basement – SE Area (below coin vault)	No Asbestos Detected	Friable
GSA-07A, -07B	Gray fireproofing overspray on walls	4 th Floor / 2 nd & 1 st Floors – Seismic Repair Areas	No Asbestos Detected	Friable
GSA-06A, -06C	Fiberglass insulation with paper wrap on Pipes	Throughout Remodeled Areas	No Asbestos Detected	Friable
GSA-08A, -08B	Grey sealant on HVAC	Throughout Remodeled Areas	No Asbestos Detected	Non-Friable
GSA-11A, -11B	Sealant at base of electrical racks	Throughout – Electrical Closets	No Asbestos Detected	Non-Friable
GSA-12A, -12C	Mastic associated with 6" blue covebase	Throughout Remodeled Areas	No Asbestos Detected	Non-Friable
GSA-13A, -13B	Mastic associated with tan carpet squares	4 th Floor – Corridor and Conference	No Asbestos Detected	Non-Friable
GSA-14A, -14B	Mastic and leveling associated with tan carpet squares	4 th Floor – Offices	No Asbestos Detected	Friable
GSA-15 A	Wall plaster	Throughout	No Asbestos Detected	Friable
GSA-16 A	2'X2' suspended ceiling tiles – white w/o holes	4 th Floor – Kitchen	No Asbestos Detected	Friable
GSA-17A	Grey sink undercoat	4 th Floor – Kitchen	No Asbestos Detected	Non-Friable
GSA-18A, -18B	18" VFT with associated mastic	4 th / 3 rd / Ground Floors and Basement	No Asbestos Detected	Non-Friable
GSA-19A, -19B, -19C	Tan Spray on fireproofing	3 rd Floor	No Asbestos Detected	Friable
GSA-20A, -20B	Mastic associated with variegated carpet squares	3 rd Floor – Offices	No Asbestos Detected	Non-Friable
GSA-21 A	Green HVAC sealant	Throughout	No Asbestos Detected	Non-Friable
GSA-22 A	Black sink undercoating	3 rd Floor – W Corridor	No Asbestos Detected	Non-Friable
GSA-23A	Mastic associated with variegated carpet squares	2 nd Floor	No Asbestos Detected	Non-Friable

Sample ID	Material Description	Location	Asbestos Content	Friability
GSA-24A	Mastic associated with 4" Black covebase	2 nd Floor	No Asbestos Detected	Non-Friable
GSA-25A	Mastic associated with 2" covebase (various colors)	2 nd Floor	Brown Adhesive: <1% Tremolite	Non-Friable
GSA-26A	Mastic associated with grey carpet	1 st and 2 nd Floors	No Asbestos Detected	Non-Friable
GSA-27A	Mastic associated with lower wall panels	3 rd Floor / Ground Floor	No Asbestos Detected	Non-Friable
GSA-28A, -28B	Debris above firing range	Ground Floor – Firing Range	No Asbestos Detected	Friable

Building Materials Previously Sampled for Asbestos at 1015 Second Ave⁹

Sample ID	Material Description	Location	Asbestos Content	Friability
993156 B-1	Gray VAT(2 layers) w/ mastic	Basement – Vault	2 - 5% Chrysotile	Non-Friable
993157 B-2	Bus bar shroud	Basement	No Asbestos Detected	Non-Friable
993158 B-3	Gray paper packing in bus bar assembly	Basement	No Asbestos Detected	Non-Friable
993159 B-4	Block material in bus bar assembly	Basement	50 - 60% Chrysotile	Non-Friable
993160 B-5	Stiff paper insert in bus bar assembly	Basement	No Asbestos Detected	Non-Friable
993161 B-6	Mortar between bricks – columns	Basement	No Asbestos Detected	Non-Friable
993162 B-7	Asbestos lining in fire doors	Throughout	70 - 80% Chrysotile	Friable
993163 G-8	Blown-on cementitious ceiling insulation	Ground Floor	No Asbestos Detected	Friable
993164 G-9	Blown-on cementitious ceiling	Ground Floor	No Asbestos Detected	Friable
993165 G-10	CAB panels behind wall heater units	1 st Floor / 2 nd Floor	40 - 50% Chrysotile	Non-Friable
993166 G-11	VAT	Ground Floor	2 - 5% Chrysotile	Non-Friable
993167 G-12	Mastic beneath VAT	Ground Floor	No Asbestos Detected	Non-Friable
993168 G-13	Glued-on ceiling tile	Ground Floor	No Asbestos Detected	Friable
993169 G-14	Glued-on ceiling tile	Ground Floor	No Asbestos Detected	Friable
993170 G-15	Glued-on ceiling tile	Ground Floor	No Asbestos Detected	Friable
993171 G-16	Amosite in overhead above pistol range (REMOVED)	Ground Floor	60 - 70% Amosite 5 - 10% Chrysotile 1 - 3% Crocidolite	Friable
993175 1-17	Aircell insulation on hot water lines	1 st Floor	60 - 70% Chrysotile	Friable
993176 1-18	Magnesia cement elbow on hot water lines	1 st Floor	5 - 10% Amosite 1 - 3% Chrysotile	Friable
993177 2-19	Magnesia cement elbow on hot water lines	2 nd Floor	5 - 10% Amosite <1% Chrysotile	Friable
993178 2-20	Aircell insulation on hot water lines	2 nd Floor	60 - 70% Chrysotile	Friable
993179 3-21	Aircell insulation on hot water lines	3 rd Floor	10 - 15% Chrysotile	Friable
993180 3-22	Magnesia cement elbow on hot water lines	3 rd Floor	20 - 25% Chrysotile	Friable
993172 G-23	VAT	Ground Floor	1 - 3% Chrysotile	Non-Friable
993173 G-24	Mastic beneath VAT	Ground Floor	3 - 7% Chrysotile	Non-Friable

⁹Data from "A Survey and Assessment of Asbestos and Hazardous Materials and Risk Assessment", Carl Mangold, Environmental Control Sciences, Inc. 1993.

This report does not represent all conditions at the subject site as it only reflects the information gathered from specific locations. RGA's observations and sampling included all accessible interior areas identified in the report. Observation or sampling of inaccessible areas was not within the scope of RGA's work and was not performed.

This report was prepared pursuant to the contract RGA has with the client. Unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

Contact us at 206-281-8858 with any questions.

Attachment 1

Laboratory Results & Chains of Custody



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-01A 12017866	Yellow adhesive	No Asbestos Detected	10% Synthetic	65% Resin and Binder 15% Filler and Binder 10% Mineral Particles
GSA-01B 12017867	Yellow adhesive	No Asbestos Detected	10% Synthetic	65% Resin and Binder 15% Filler and Binder 1%) Mineral Particles
GSA-02A 12017868	Green adhesive	No Asbestos Detected	10% Synthetic	75% Resin and Binder 15% Mineral Particles
GSA-02B 12017869	Green adhesive	No Asbestos Detected	10% Synthetic	75% Resin and Binder 15% Mineral Particles
GSA-03A 12017870	L-1 White paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-2 Tan fibrous material	No Asbestos Detected	45% Cellulose 25% Mineral Wool	15% Perlite 10% Filler and Binder 5% Mineral Particles
GSA-03C 12017871	L-1 White paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-2 Tan fibrous material	No Asbestos Detected	45% Cellulose 25% Mineral Wool	15% Perlite 10% Filler and Binder 5% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Aruna Turaga

Reviewed By: Aruna Turaga

7/13/2012

7/20/2012

Analyzed By: Minh Huynh

7/20/2012

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Bulk Asbestos Fiber Analysis

(EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-04A 12017872	L-1 White fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-2 White powdery blocky material	No Asbestos Detected	15% Glass Fiber	65% Gypsum Filler and Binder 10% Calcite Filler and Binder 10% Mineral Particles
GSA-04B 12017873	L-1 White crystalline material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles
	L-2 White fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-3 Tan fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-4 White powdery blocky material	No Asbestos Detected	15% Glass Fiber	65% Gypsum Filler and Binder 10% Calcite Filler and Binder 10% Mineral Particles

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Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-04C 12017874	L-1 White paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-2 White crystalline material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles
	L-3 White fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-4 Tan fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-5 White powdery blocky material	No Asbestos Detected	15% Glass Fiber	65% Gypsum Filler and Binder 10% Calcite Filler and Binder 10% Mineral Particles
GSA-04D 12017875	L-1 Tan fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-2 White powdery blocky material	No Asbestos Detected	15% Glass Fiber	65% Gypsum Filler and Binder 10% Calcite Filler and Binder 10% Mineral Particles

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GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-04E 12017876	L-1 Yellow paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-2 White crystalline material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles
	L-3 Tan fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-4 White powdery blocky material	No Asbestos Detected	15% Glass Fiber	65% Gypsum Filler and Binder 10% Calcite Filler and Binder 10% Mineral Particles
GSA-04F 12017877	L-1 Gray paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-2 White crystalline material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles
	L-3 Tan fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-4 White powdery blocky material	No Asbestos Detected	15% Glass Fiber	65% Gypsum Filler and Binder 10% Calcite Filler and Binder 10% Mineral Particles

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Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-04G 12017878	L-1 Gray paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-2 White crystalline material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles
	L-3 White powdery blocky material	No Asbestos Detected	15% Glass Fiber	65% Gypsum Filler and Binder 10% Calcite Filler and Binder 10% Mineral Particles
GSA-05A 12017879	Gray granular fibrous material	No Asbestos Detected	25% Cellulose	55% Filler and Binder 15% Synthetic Foam 5% Mineral Particles
GSA-05B 12017880	Gray granular fibrous material	No Asbestos Detected	25% Cellulose	45% Filler and Binder 15% Synthetic Foam 10% Paint 5% Mineral Particles
GSA-05C 12017881	Gray granular fibrous material	No Asbestos Detected	25% Cellulose	45% Filler and Binder 15% Synthetic Foam 10% Paint 5% Mineral Particles
GSA-05D 12017882	Gray granular fibrous material	No Asbestos Detected	25% Cellulose	45% Filler and Binder 15% Synthetic Foam 10% Paint 5% Mineral Particles

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Bulk Asbestos Fiber Analysis

(EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

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Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-05E 12017883	Gray granular fibrous material	No Asbestos Detected	25% Cellulose	45% Filler and Binder 15% Synthetic Foam 10% Paint 5% Mineral Particles
GSA-05F 12017884	Gray granular fibrous material	No Asbestos Detected	25% Cellulose	45% Filler and Binder 15% Synthetic Foam 10% Paint 5% Mineral Particles
GSA-06A 12017885	L-1 Foil	No Asbestos Detected		100% Foil
	L-2 White fibrous weave	No Asbestos Detected	75% Glass Fiber	15% Resin and Binder 10% Mineral Particles
	L-3 White fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-4 Yellow fibrous material	No Asbestos Detected	100% Glass Fiber	

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Sampled By: John McCaslin

Received By: Aruna Turaga

Reviewed By: Aruna Turaga

7/13/2012

7/20/2012

Analyzed By: Minh Huynh

7/20/2012

Page 6 of 15



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-06C 12017886	L-1 Foil	No Asbestos Detected		100% Foil
	L-2 White fibrous weave	No Asbestos Detected	75% Glass Fiber	15% Resin and Binder 10% Mineral Particles
	L-3 White fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
	L-4 Yellow fibrous material	No Asbestos Detected	100% Glass Fiber	
GSA-08A 12017887	Gray smooth sealant material	No Asbestos Detected		75% Resin and Binder 15% Filler and Binder 10% Mineral Particles
GSA-08B 12017888	Gray smooth sealant material	No Asbestos Detected		75% Resin and Binder 15% Filler and Binder 10% Mineral Particles
GSA-11A 12017889	Tan smooth sealant material	No Asbestos Detected		75% Resin and Binder 15% Filler and Binder 10% Mineral Particles

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Sampled By: John McCaslin

Received By: Aruna Turaga

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7/13/2012

7/20/2012

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7/20/2012

Page 7 of 15



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Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-11B 12017890	L-1 Yellow adhesive	No Asbestos Detected		75% Resin and Binder 15% Filler and Binder 10% Mineral Particles
	L-2 Tan smooth sealant material	No Asbestos Detected		75% Resin and Binder 15% Filler and Binder 10% Mineral Particles
GSA-12A 12017891	L-1 White adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
	L-2 White paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-3 White crystalline material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles
	L-4 Gray fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
GSA-12C 12017892	L-1 White adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
	L-2 White paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-3 White crystalline material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles

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Sampled By: John McCaslin

Received By: Aruna Turaga

Reviewed By: Aruna Turaga

7/13/2012

7/20/2012

Analyzed By: Minh Huynh

7/20/2012

Page 8 of 15



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Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-13A 12017893	L-1 Blue adhesive	No Asbestos Detected	15% Synthetic	75% Resin and Binder 10% Mineral Particles
	L-2 Gray granular material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles
GSA-13B 12017894	Green adhesive	No Asbestos Detected	15% Synthetic	75% Resin and Binder 10% Mineral Particles
GSA-14A 12017895	L-1 Clear adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
	L-2 Gray granular material	No Asbestos Detected	5% Cellulose	85% Filler and Binder 10% Mineral Particles
GSA-14B 12017896	L-1 Clear adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
	L-2 Gray granular material	No Asbestos Detected	5% Cellulose	85% Filler and Binder 10% Mineral Particles
GSA-16A 12017897	L-1 White vinyl sheeting	No Asbestos Detected		65% Vinyl Filler and Binder 25% Calcite Filler and Binder 10% Mineral Particles
	L-2 Tan fibrous backing material	No Asbestos Detected	25% Cellulose 10% Synthetic	55% Resin and Binder 10% Mineral Particles

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Sampled By: John McCaslin

Received By: Aruna Turaga

Reviewed By: Aruna Turaga

7/13/2012

7/20/2012

Analyzed By: Minh Huynh

7/20/2012

Page 9 of 15



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Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-17A 12017898	Gray granular fibrous material	No Asbestos Detected	15% Cellulose	75% Filler and Binder 10% Mineral Particles
GSA-18A 12017899	L-1 Tan vinyl tile	No Asbestos Detected	15% Cellulose	65% Vinyl Filler and Binder 15% Calcite Filler and Binder 5% Mineral Particles
	L-2 Black vinyl tile	No Asbestos Detected	15% Cellulose	65% Vinyl Filler and Binder 15% Calcite Filler and Binder 5% Mineral Particles
	L-3 Blue vinyl tile	No Asbestos Detected	15% Cellulose	65% Vinyl Filler and Binder 15% Calcite Filler and Binder 5% Mineral Particles
	L-4 White fibrous weave	No Asbestos Detected	75% Synthetic	15% Resin and Binder 10% Mineral Particles
	L-5 Yellow adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
	L-6 Gray granular material	No Asbestos Detected		85% Filler and Binder 15% Mineral Particles

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Sampled By: John McCaslin

Received By: Aruna Turaga

Reviewed By: Aruna Turaga

7/13/2012

7/20/2012

Analyzed By: Minh Huynh

7/20/2012

Page 10 of 15



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Bulk Asbestos Fiber Analysis

(EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-18B 12017900	L-1 Blue vinyl tile	No Asbestos Detected	15% Cellulose	65% Vinyl Filler and Binder 15% Calcite Filler and Binder 5% Mineral Particles
	L-2 Tan vinyl tile	No Asbestos Detected	15% Cellulose	65% Vinyl Filler and Binder 15% Calcite Filler and Binder 5% Mineral Particles
	L-3 White fibrous weave	No Asbestos Detected	75% Synthetic	15% Resin and Binder 10% Mineral Particles
	L-4 Yellow adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
GSA-19A 12017901	Tan granular material	No Asbestos Detected		75% Filler and Binder 15% Vermiculite 10% Mineral Particles
GSA-19B 12017902	Tan granular material	No Asbestos Detected		75% Filler and Binder 15% Vermiculite 10% Mineral Particles
GSA-19C 12017903	Tan granular material	No Asbestos Detected		75% Filler and Binder 15% Vermiculite 10% Mineral Particles
GSA-20A 12017904	Gray adhesive	No Asbestos Detected		75% Resin and Binder 15% Filler and Binder 10% Mineral Particles

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Received By: Aruna Turaga

Reviewed By: Aruna Turaga

7/13/2012

7/20/2012

Analyzed By: Minh Huynh

7/20/2012

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Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-20B 12017905	Tan adhesive	No Asbestos Detected		75% Resin and Binder 15% Filler and Binder 10% Mineral Particles
GSA-21A 12017906	Green adhesive	No Asbestos Detected	10% Synthetic	75% Resin and Binder 15% Mineral Particles
GSA-22A 12017907	Black asphaltic adhesive	No Asbestos Detected		55% Mineral Particles 35% Asphalt Filler and Binder 10% Mineral Particles
GSA-23A 12017908	Blue adhesive	No Asbestos Detected	10% Synthetic	75% Resin and Binder 15% Mineral Particles
GSA-24A 12017909	L-1 White adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
	L-2 White paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-3 Gray fibrous paper	No Asbestos Detected	75% Cellulose	15% Filler and Binder 10% Mineral Particles
GSA-25A 12017910	Brown adhesive	<1% Tremolite		90% Resin and Binder >9% Mineral Particles
GSA-25B 12017911	Brown adhesive	<1% Tremolite		90% Resin and Binder >9% Mineral Particles

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Sampled By: John McCaslin

Received By: Aruna Turaga

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7/13/2012

7/20/2012

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7/20/2012

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Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-26A 12017912	Yellow adhesive	No Asbestos Detected	10% Synthetic	75% Resin and Binder 15% Mineral Particles
GSA-27A 12017913	Beige adhesive	No Asbestos Detected		75% Resin and Binder 15% Filler and Binder 10% Mineral Particles
GSA-28A 12017914	Soil	No Asbestos Detected		
GSA-28B 12017915	Soil	No Asbestos Detected		
GSA-07A 12017916	L-1 Gray fibrous material	No Asbestos Detected	25% Cellulose	65% Filler and Binder 10% Mineral Particles
	L-2 Pink fibrous material	No Asbestos Detected	100% Glass Fiber	
GSA-07B 12017917	Tan granular material	No Asbestos Detected		75% Filler and Binder 15% Vermiculite 10% Mineral Particles

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7/13/2012

7/20/2012

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7/20/2012

Page 13 of 15



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Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-15A 12017918	L-1 Layered paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-2 White granular sandy material	No Asbestos Detected		65% Filler and Binder 25% Sand 10% Mineral Particles
	L-3 Gray granular sandy material	No Asbestos Detected		65% Filler and Binder 25% Sand 10% Mineral Particles
GSA-15B 12017919	L-1 Layered paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-2 White granular sandy material	No Asbestos Detected		65% Filler and Binder 25% Sand 10% Mineral Particles
	L-3 Gray granular sandy material	No Asbestos Detected		65% Filler and Binder 25% Sand 10% Mineral Particles

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7/20/2012

Page 14 of 15



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Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

GSA

Project Location: Former Federal Reserve Branch
1015 2nd Ave

RGA Batch Number: **12-1883**

RGA Project Number: **GSANW30630**

Number of Samples: **55**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
GSA-15C 12017920	L-1 Layered paint	No Asbestos Detected		90% Paint 10% Mineral Particles
	L-2 White granular sandy material	No Asbestos Detected		65% Filler and Binder 25% Sand 10% Mineral Particles
	L-3 Gray granular sandy material	No Asbestos Detected		65% Filler and Binder 25% Sand 10% Mineral Particles

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Received By: Aruna Turaga

Reviewed By: Aruna Turaga

7/13/2012

7/20/2012

Analyzed By: Minh Huynh

7/20/2012

Page 15 of 15



ENVIRONMENTAL

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CIH - A. Harkins
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RGA CLIENT GSA NW/Arctic Region

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

☒ Stop Analysis at First Positive

PAGE 1 OF 5

☐ Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: Former Federal Reserve Branch - 1015 2nd Ave Submitted 55

RGA Project #: GSA NW 30630 Sampled By: John McAslin/Emily Kohler Sample Date: 7/11-12/2012

Sample(s) Sent To: X RGA ☐ EMSL ☐ Other: ☐ TAT: ☐ Rush ☐ 24Hrs ☐ 48Hrs ☒ 3-5 Days

*** FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM) ***

*** ADDITIONAL REPORT RECIPIENT(S): John Mc. / Emily K. ***

HM# 01	Material Description: <u>Adhesive behind metal wall panels</u>
Sample ID	Sample Location & Material Location Quantity:
GSA-01A	<u>Floor 4 - Cafeteria - W Wall</u>
↓ -01B	<u>↓ - N Wall</u>
HM# 02	Material Description: <u>Mastic Beneath Gray Patterned Carpet</u>
Sample ID	Sample Location & Material Location Quantity:
GSA-02A	<u>Floor 4 - Cafeteria - S Side</u>
↓ -02B	<u>↓ - N Side</u>
HM# 03	Material Description: <u>2'x2' Suspended Ceiling Tile - White Random Holes</u>
Sample ID	Sample Location & Material Location Quantity:
GSA-03A	<u>Floor 4 - Cafeteria - SW area</u>
↓ -03B	<u>↓ - S Offices - N Side</u>
↓ -03C	<u>Floor 3 - Freight Elev. Lobby</u>
HM# 04	Material Description: <u>GWB w/Joint Compound</u>
Sample ID	Sample Location & Material Location Quantity:
GSA -04A	<u>Floor 4 - Cafeteria - SW Area (Above Susp. Ceiling)</u>
↓ -04B	<u>↓ - S Offices - N Side (11 offices)</u>
↓ -04C	<u>↓ - Electrical Closet - S End</u>
HM# 04	Material Description: <u>GWB w/Joint Compound</u>
Sample ID	Sample Location & Material Location Quantity:
GSA -04D	<u>Floor 4 - S Offices - E Side (Above Susp. Ceiling)</u>
↓ -04E	<u>Floor 3 - W Corridor</u>
↓ -04F	<u>↓ - S Offices - SW office</u>
HM# 04	Material Description: <u>GWB w/Joint Compound</u>
Sample ID	Sample Location & Material Location Quantity:
GSA -04G	<u>Floor 3 - Mail - S Wall</u>

Relinquished By: John McAslin Signature: [Signature] Date/Time: 7/13/2012 1000

Received By: _____ Signature: _____ Date/Time: _____

Relinquished By: _____ Signature: _____ Date/Time: _____

Received By: [Signature] Signature: [Signature] Date/Time: 7/13/12 10:00

13

12-1883



C IH - A. Harkins
Angela.harkins@rgaenv.com
fax: 206.281.8922

RGA CLIENT GSA NW/Arctic Region

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

☒ Stop Analysis at First Positive

PAGE 2 OF 5

☐ Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: Fmr Fed. Res. Branch - 1015 2nd Ave

Submitted 5/5

RGA Project #: GSA NW 30630

Sampled By: JMC / EK

Sample Date: 7/11-12/2012

Sample(s) Sent To: ☒ RGA

☐ EMSL

☐ Other:

TAT:

Rush

24Hrs

48Hrs

☒ 3-5 Days

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

ADDITIONAL REPORT RECIPIENT(S): John MC / Emily K

HM# <u>05</u>	Material Description: <u>Gray Sprayed-on Fireproofing</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-05A</u>	<u>Floor 4 - Cafeteria - SW Area (Above Susp. Ceiling)</u>	
<u>↓ -05B</u>	<u>↓ - Data Closet - S Side</u>	
<u>↓ -05C</u>	<u>↓ - Cafeteria - NE Area (Above Susp. Ceiling)</u>	
HM# <u>05</u>	Material Description: <u>Gray Sprayed-on Fireproofing</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-05D</u>	<u>Floor 3 - Column - S - Offices (Above Susp. Ceiling)</u>	
<u>↓ -05E</u>	<u>↓ - N - Mail (↓ ↓ ↓)</u>	
<u>↓ -05F</u>	<u>Ground - Above firing range</u>	
HM# <u>06</u>	Material Description: <u>FG Insulation w/ paper wrap on pipes</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-06A</u>	<u>Floor 4 - Cafeteria - SW Area (Above Susp. Ceiling)</u>	
<u>↓ -06C</u>	<u>Floor 3 - W Corridor - (Above Susp. Ceiling)</u>	
HM# <u>08</u>	Material Description: <u>Gray Sealant on HVAC</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-08A</u>	<u>Floor 4 - S Offices - N Side (Above Susp. Ceiling)</u>	
<u>-08B</u>	<u>↓ - Center (↓ ↓ ↓)</u>	
HM# <u>11</u>	Material Description: <u>Sealant @ base of Electrical Racks</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-11A</u>	<u>Floor 4 - Electrical Closet - S End</u>	
<u>↓ -11B</u>	<u>↓ - N End</u>	
HM# <u>12</u>	Material Description: <u>Mastic Associated w/ 6" Blue Corebase</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-12A</u>	<u>Floor 4 - Electrical Closet - S End</u>	
<u>↓ -12C</u>	<u>Floor 3 - S Side - Mail - N Wall</u>	

Relinquished By: John McCarlin

Signature: [Signature]

Date/Time: 7/13/2012 1000

Received By: _____

Signature: _____

Date/Time: _____

Relinquished By: _____

Signature: [Signature]

Date/Time: _____

Received By: _____

Signature: _____

Date/Time: 7/13/12 10:10

14

RGA CLIENT GSANW/Arctic Region

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

☒ Stop Analysis at First Positive

PAGE 3 OF 5

☐ Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: Fmr. Fed. Res. Branch - 1015 2nd Ave

Submitted 5/5

RGA Project #: GSANW30630

Sampled By: JMC/EK

Sample Date: 7/11-12/2012

Sample(s) Sent To: ☒ RGA

☐ EMSL

Other: ☐

TAT: ☐

Rush ☐

24Hrs ☐

48Hrs ☐

☒ 3-5 Days

*** **FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** ***

*** **ADDITIONAL REPORT RECIPIENT(S):** John Mc/Emily K ***

HM# <u>13</u>	Material Description: <u>Mastic Beneath Tan Pattern Carpet D</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-13A</u>	<u>Floor 4 - W Corridor - S End</u>	
<u>↓ -13B</u>	<u>↓ - Conference - W Side</u>	
HM# <u>14</u>	Material Description: <u>Mastic w/leveling Compound Beneath Tan Pattern Carpet</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-14A</u>	<u>Floor 4 - S Offices - N End</u>	
<u>↓ -14A</u>	<u>↓ - S End</u>	
<u>14B</u>		
HM# <u>16</u>	Material Description: <u>2'x2' Suspended Ceiling Tile - White w/o Holes</u>	Quantity: <u>1000</u>
Sample ID	Sample Location & Material Location	
<u>GSA-16A</u>	<u>Floor 4 - Kitchen - Service Line N Side</u>	
<u>↓ -16B</u>		
HM# <u>17</u>	Material Description: <u>Gray Sink Undercoat</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-17A</u>	<u>Floor 4 - Kitchen - Service Line</u>	
HM# <u>18</u>	Material Description: <u>Variegated 18" VFT w/ Mastic</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-18A</u>	<u>Floor 3 - S Corridor - SE Corner</u>	
<u>↓ -18B</u>	<u>↓ - W Corridor - N Side</u>	
HM# <u>19</u>	Material Description: <u>Tan Sprayed-on Fireproofing</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-19A</u>	<u>Floor 3 - N - Storage</u>	
<u>↓ -19B</u>	<u>↓ - S - Sorters</u>	
<u>↓ -19C</u>	<u>↓ - S - Offices</u>	

Relinquished By: John McCarlin

Signature: [Signature]

Date/Time: 7/13/2012 1000

Received By: _____

Signature: _____

Date/Time: _____

Relinquished By: _____

Signature: [Signature]

Date/Time: _____

Received By: _____

Signature: _____

Date/Time: 7/13/12

(11)

12-1883



CIH - A. Harkins
Angela.harkins@rgaenv.com
fax: 206.281.8922

RGA CLIENT: GSA NW/Arctic Region

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

☒ Stop Analysis at First Positive PAGE 4 OF 5

☐ Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: Fmr. Fed. Res. Branch - 1015 2nd Ave Submitted 55

RGA Project #: GSA NW 30630 Sampled By: John Mc/Emlly K. Sample Date: 7/13-12/2012

Sample(s) Sent To: ☒ RGA ☐ EMSL ☐ Other: TAT: ☐ Rush ☐ 24Hrs ☐ 48Hrs ☐ 3-5 Days

*** **FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** ***

*** **ADDITIONAL REPORT RECIPIENT(S):** John Mc/Emlly K ***

HM# 20	Material Description: <u>Mastic Beneath Variegated Carpet</u> <input type="checkbox"/>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-20A</u>	<u>Floor 3 - S - Offices</u>	
<u>↓ -20B</u>	<u>↓ ↓ ↓</u>	
HM# 21	Material Description: <u>Green HVAC Sealant</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-21A</u>	<u>Floor 3 - S - Offices (Above Susp. Ceiling)</u>	
HM# 22	Material Description: <u>Black Sink Undercoat</u>	Quantity: <u>5</u>
Sample ID	Sample Location & Material Location	
<u>GSA-22A</u>	<u>Floor 3 - W Corridor</u>	
HM# 23	Material Description: <u>Mastic Beneath Variegated Carpet</u> <input type="checkbox"/>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-23A</u>	<u>Floor 2 - E Side - S Office</u>	
HM# 24	Material Description: <u>Mastic Associated w/ 4" Black Covebase</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-24A</u>	<u>Floor 2 - E Side - Offices - N Wall</u>	
HM# 25	Material Description: <u>Mastic Associated w/ 2" Covebase (Var. Colors)</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>GSA-25A</u>	<u>Floor 2 - W Side - Ext Wall</u>	
<u>↓ -25B</u>	<u>↓ - E Side - Offices - E Wall</u>	

8

Relinquished By: John McCaslin Signature: [Signature] Date/Time: 7/13/2012 1000

Received By: _____ Signature: _____ Date/Time: _____

Relinquished By: _____ Signature: _____ Date/Time: _____

Received By: _____ Signature: [Signature] Date/Time: 7/13/12



ENVIRONMENTAL

X PM - E. Hartman
Eric.Hartman@rgaenv.com
fax: 206.281.8922

C IH - A. Harkins
Angela.harkins@rgaenv.com
fax: 206.281.8922

RGA CLIENT GSA NW/Arctic Region

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

Stop Analysis at First Positive PAGE 5 OF 5

Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: GSA Fmr. Fed. Res. Branch - 1015 2nd Ave Submitted 55

RGA Project #: GSA NW 30630 Sampled By: John MC/Emily K Sample Date: 7/11-12/2012

Sample(s) Sent To: X RGA EMSL Other: TAT: Rush 24Hrs 48Hrs X 3-5 Days

*** **FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** ***

*** **ADDITIONAL REPORT RECIPIENT(S):** John MC/Emily K ***

HM# <u>26</u>	Material Description: <u>Mastic Beneath Gray Patterned Carpet</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-26A</u>	<u>Floor 2 - N End - Offices - W End</u>	
HM# <u>27</u>	Material Description: <u>Mastic Behind Lower Wall Panels</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-27A</u>	<u>Ground - S Cages</u>	
HM# <u>28</u>	Material Description: <u>Debris above Firing Range</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-28A</u>	<u>Ground - Above Firing Range - N End</u>	
<u>↓ -28B</u>	<u>↓ - ↓ ↓ ↓ - S End</u>	
HM# <u>07</u>	Material Description: <u>FP overspray on ext walls</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-07A</u>	<u>Floor 4 - Cafeteria - St Area (Above Susp. Ceiling) - W Wall</u>	
<u>-07B</u>	<u>↓ - S offices - E Wall</u>	
HM# <u>15</u>	Material Description: <u>Wall Plaster</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>GSA-15A</u>	<u>Floor 4 - Elevator Lobby - W Wall</u>	
<u>↓ -15B</u>	<u>Floor 3 - Freight Elev. Lobby - S Wall</u>	
<u>↓ -15C</u>	<u>Floor 2 - Elevator lobby - W Wall</u>	
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: John McCaslin Signature: [Signature] Date/Time: 7/13/2012 1000

Received By: _____ Signature: _____ Date/Time: _____

Relinquished By: _____ Signature: _____ Date/Time: _____

Received By: [Signature] Signature: [Signature] Date/Time: 7/13/12 10:00

Sample Log Chain of Custody

RGA Laboratory Services

INTERNAL

Client: Bob Bliss

Company: GSA

Client Address: 400 15th SW

Auburn WA

City State Zip

Phone #: _____

2nd or Cell #: (253)397-6862

Fax #: _____

e-mail Address: _____

RGA Batch #: 12-1883

RGA Project #: GSANW30630

Client Job #: _____

Number of Samples: 55

TYPE OF ANALYSIS		
ASBESTOS:	METALS:	
<input type="checkbox"/> PCM (air)	<input type="checkbox"/> Paint	<input type="checkbox"/> Soil
<input checked="" type="checkbox"/> PLM (bulk)	<input type="checkbox"/> Wipe	<input type="checkbox"/> Air
<input type="checkbox"/> Pt. Count (bulk)	<input type="checkbox"/> TCLP	<input type="checkbox"/> Water
MOLD: P&K <input type="checkbox"/> 100 <input type="checkbox"/> 101 <input type="checkbox"/> 102 <input type="checkbox"/> 105 <input type="checkbox"/> 117		
Other Method: _____		

Project Manager: Eric Hartman

Project Location: Former Federal Reserve Branch
1015 2nd Ave

Turn Around Time (other): 5 day		
2 hour / 4 hour	Same Day	One Day
Two Day	3-5 days	10 days
Price per Sample: \$ _____		

Condition: ☒ Good ☐ Damaged ☐ Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	GSA-01A	12017866		11	GSA-04E	12017876	
2	GSA-01B	12017867		12	GSA-04F	12017877	
3	GSA-02A	12017868		13	GSA-04G	12017878	
4	GSA-02B	12017869		14	GSA-05A	12017879	
5	GSA-03A	12017870		15	GSA-05B	12017880	
6	GSA-03C	12017871		16	GSA-05C	12017881	
7	GSA-04A	12017872		17	GSA-05D	12017882	
8	GSA-04B	12017873		18	GSA-05E	12017883	
9	GSA-04C	12017874		19	GSA-05F	12017884	
10	GSA-04D	12017875		20	GSA-06A	12017885	

	Signature	Date	Time
Sampled by:	John M	7/11-7/12/12	
Relinquished by:			
Received by:			
Relinquished by:	[Signature]	7/13/12	10:50
Received for Laboratory by:	[Signature]	7/20/12	
Analyzed by:	[Signature]	7/20/12	
Preliminary Results Reported to P.M. by:			
Final Report to P.M. by:			

Special Instructions:	Stop at First Positive
Due by 7/30/2012 <u>072012</u>	

Sample Log Chain of Custody

RGA Laboratory Services

INTERNAL

Client: Bob Bliss

Company: GSA

Client Address: 400 15th SW

Auburn WA

City State Zip

RGA Batch #: 12-1883

RGA Project #: GSANW30630

Client Job #: _____

Number of Samples: 55

Page: 2 of 2

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
21	GSA-06C	12017886		41	GSA-21A	12017906	
22	GSA-08A	12017887		42	GSA-22A	12017907	
23	GSA-08B	12017888		43	GSA-23A	12017908	
24	GSA-11A	12017889		44	GSA-24A	12017909	
25	GSA-11B	12017890		45	GSA-25A	12017910	
26	GSA-12A	12017891		46	GSA-25B	12017911	
27	GSA-12C	12017892		47	GSA-26A	12017912	
28	GSA-13A	12017893		48	GSA-27A	12017913	
29	GSA-13B	12017894		49	GSA-28A	12017914	
30	GSA-14A	12017895		50	GSA-28B	12017915	
31	GSA-14B	12017896		51	GSA-07A	12017916	
32	GSA-16A	12017897		52	GSA-07B	12017917	
33	GSA-17A	12017898		53	GSA-15A	12017918	
34	GSA-18A	12017899		54	GSA-15B	12017919	
35	GSA-18B	12017900		55	GSA-15C	12017920	
36	GSA-19A	12017901		56			
37	GSA-19B	12017902		57			
38	GSA-19C	12017903		58			
39	GSA-20A	12017904		59			
40	GSA-20B	12017905		60			

	Signature	Date	Time
Sampled by:	John M	7/11 - 7/12/12	
Relinquished by:			
Received by:			
Relinquished by:			
Received for Laboratory by:	T. [Signature]	7/13/12	10:30
Analyzed by:	MH	7/19/12	
Preliminary Results Reported to P.M. by:	MH	7/20/12	
Final Report to P.M. by:			
Special Instructions: Stop at First Positive Due by 7/30/2012			

Attachment 2

Sampling Methodology

Asbestos Sampling Protocol

This survey was conducted using a protocol adapted from the Asbestos Hazard Emergency Response Act (AHERA). The protocol is as follows:

1. Group materials into homogeneous sampling areas based on visual observations and information provided about the sidewalk tunnel renovations.
2. Quantify each homogeneous sampling area and collect samples from each area using the "3-5-7" criteria for surfacing material to determine the number of samples needed. Quantify and collect a minimum of three samples of each thermal system insulation. The number of samples collected of miscellaneous materials was determined by the inspector.
3. Samples were collected from areas of easy access and minimum disturbance to building occupants.
4. Samples of each material were taken to the substrate, ensuring that all components of the material were included.
5. Sampling was performed by an AHERA accredited building inspector.

Asbestos Sampling Procedure

1. Label sample container with unique identification number. Record sample number, sample location, type of material, and approximate material quantity on data form.
2. Extract sample using a clean knife or other tool to collect approximately one tablespoon of the material. Penetrate all layers of material.
3. Place sample in a container and tightly seal it.
4. Clean tools with wet wipes. Clean any material debris from sampling area.

Asbestos Laboratory Analysis

The bulk samples were analyzed by RGA Laboratory using polarized light microscopy (PLM) with dispersion staining in accordance with US EPA method 600/R-93/116 as specified in 40 CFR Chapter I (7-1-93 edition) Part 763, Subpart F, Appendix A, pages 499-504. Polarizing light microscopy quantifies asbestos concentrations at between 100% and 1% detection levels. Levels below 1% can only be stated as "trace" or "less than 1% (< 1%)". RGA Laboratory is a member of the National Voluntary Laboratory Accreditation Program (NVLAP), NVLAP Code #200613-0. Samples were not analyzed by point count to determine asbestos concentrations.

For samples containing more than one separable layer of materials, the laboratory report will include findings for each layer (labeled L-1 for layer one and L-2 for layer two, etc.) and a total percentage for the entire sample, if applicable. The asbestos concentration in the sample is determined by visual estimation.

Attachment 3

Field Data



Assumed Asbestos-Containing Materials List

Project

Date 7/11/2012-7/12/12

Project # GSANW30630

Made By John McCaslin

Page 1 of 1

Sample #	Material Description	Location(s)	Fri	Quantity
ASSUMED-01	CFT w/grout + mortar (Tan) + Ceramic Covebase	Cafeteria Entry / Freight Elev. lobby Caf. office/storage/lockers (Floor 4)	N	620 ϕ
ASSUMED-02	GFT w/G+M (variegated)	Floor 4 - Restrooms	N	
-03	CWT w/G+Mastic (Var.)	↓	N	
-03	Mastic Behind Mirrors	↓	N	40 ϕ (Ea RR)
-04	CWT w/G+Mastic (Var.)	Floor 4 - Kitchen	N	850 ϕ
-05	CFT w/G+M (Var.)	Floor 4 - Kitchen / Serving	N	1200 ϕ
-06	CFT w/G+M (Gray + Blue)	Floor 3 - Restrooms	N	
-07	CWT w/G+Mastic (Var.)	↓	N	
-08	Mastic Behind Mirrors	↓	N	x 40 ϕ
-09	Black Vibration Dampers	Floor 3 - Sooters - N End - HVAC Unit	N	20 ϕ
-09	Vault Door	Floor 2 -	N	
-10	CFT w/G+M (Var. Tan)	Floor 2 - Janitor / Restrooms	N	
-11	CWT w/G+M (Yellow)	↓ ↓	N	
-12	Black Vibration Dampers	Penthouse - Fan Room - HVAC	N	50 ϕ
-13	Beige Cloth Vibration Dampers	Penthouse - NW Fan Room - HVAC	N	20 ϕ
-14	Gray/Beige Streak 12" VFT w/mastic	Stairwell landings	N	(4x4) x 4 (10x4) x 1
-15	CFT w/G+M (Var.)	Floor 1 - Entry / Teller Line	N	
-16	Black Vibration Dampers	Ground - NW Mech Room - HVAC	N	8 ϕ
-17	CWT w/G+Mastic (White)	Ground - NE Restroom	N	
-18	18" Gray VFT w/mastic	Ground - Firing Range lockers	N	
-19	12" Beige Streak VFT w/mastic	Ground - Main Vault	N	
-20	Black Vibration Dampers	Bsmt - Chiller Room	N	16 ϕ
-21	White CWT w/G+Mastic	Floor 4 - Elevator Lobby	N	650 ϕ
-22	Wall Plaster	Elevator doors (Floor 4)	N	

~~Throughout Floor 2 / Ground / Basement~~



Project #: GSA NW 30630

Field Photo Log

Memory Card ID Personal

Date Downloaded: 7/11/2012

Downloaded by: John McCaslin

File Name	Date Taken	Photographer	Picture Location, Subject
GSA 30630 -070412-001	7/11/2012	John McCaslin	Sample# GSA-01A
-002		+ Emily Kotler	-02A
-003			-03A
-004			-04A
-005			-05A
-006			-06A
-007			-07A
-008			-08A
-009			Assumed - 01
-010			Sample# GSA-09A
-011			Assumed - 02
-012			↓ - 03
-013			↓ - 04
-014			Sample# GSA-10A
-015			↓ - 11A
-016			↓ - 12A
-017			Floor 4 - Stairwell VFT (Blue + Grey)
-018			Sample# GSA-13A

Project #: GSA NW 30630

Field Photo Log

Memory Card ID PersonalDate Downloaded: 7/11/2012Downloaded by: John McCaslin

File Name	Date Taken	Photographer	Picture Location, Subject
GSA-071112-019	7/11/2012	John McCaslin + Emily Kalbler	Sample# GSA-15A
-020			↓ -15A
-021			↓ -16A
-022			Assumed - 04/-05 (Kitchen)
-023			Assumed - 05 (Serving)
-024			Sample# GSA-17A
-025			↓ -18A
-026			-19A
-027			-20A
-028			-21A
-029			↓ -22A
-030			Floor 3 - FP transition @ columns
-031			↓
-032			Assumed - 06/-07/-08
-033			↓ -09
-034			Sample# GSA-23A
-035			↓ -24A
-036			↓ -25A

Field Photo Log

Memory Card ID Personal

Date Downloaded: 7/11/2012 Downloaded by: John McCaslin

[illegible]



Project #: GSA NW30630

Field Photo Log

Memory Card ID Personal

Date Downloaded: 7/12/2012

Downloaded by: John McCaslin

[illegible]



GSA-0711212- 012



GSA-0711112- 001



GSA-0711112- 002



GSA-0711112- 003



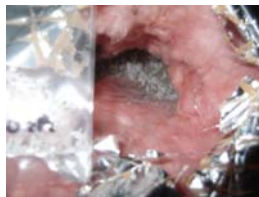
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GSA-0711112- 005



GSA-0711112- 006



GSA-0711112- 007



GSA-0711112- 008



GSA-0711112- 009



GSA-0711112- 010



GSA-0711112- 011



GSA-0711112- 012



GSA-0711112- 013



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GSA-0711112- 016



GSA-0711112- 017



GSA-0711112- 018



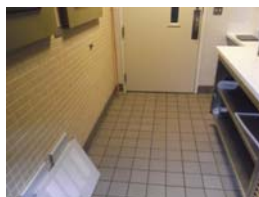
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GSA-0711112- 025



GSA-0711112- 026



GSA-0711112- 027



GSA-0711112- 028



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GSA-0711112- 030



GSA-0711112- 031



GSA-0711112- 032



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GSA-0711112- 034



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GSA-071112- 036



GSA-071112- 037



GSA-071112- 038



GSA-071112- 039



GSA-071212- 001



GSA-071212- 002



GSA-071212- 003



GSA-071212- 004



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GSA-071212- 007



GSA-071212- 008



GSA-071212- 009



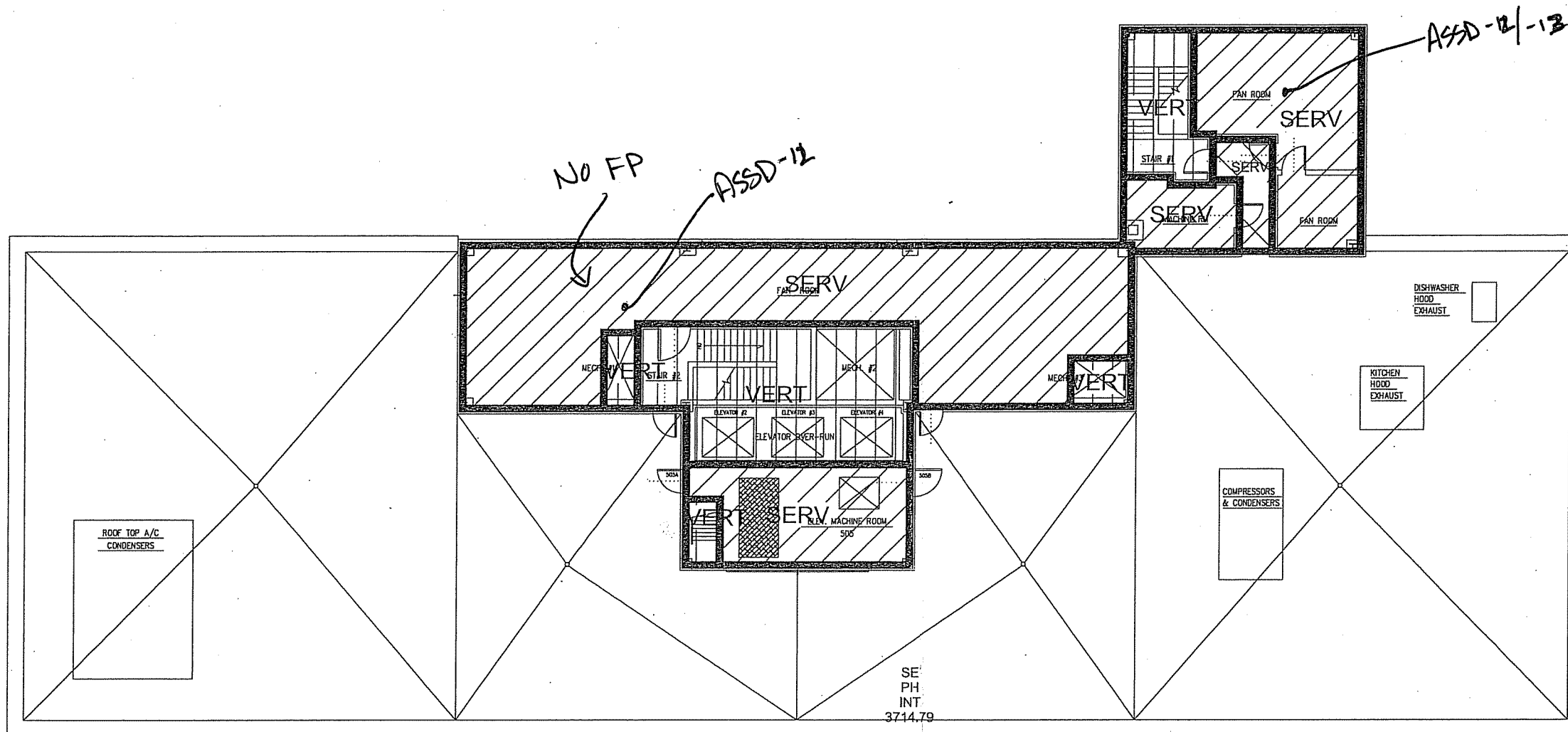
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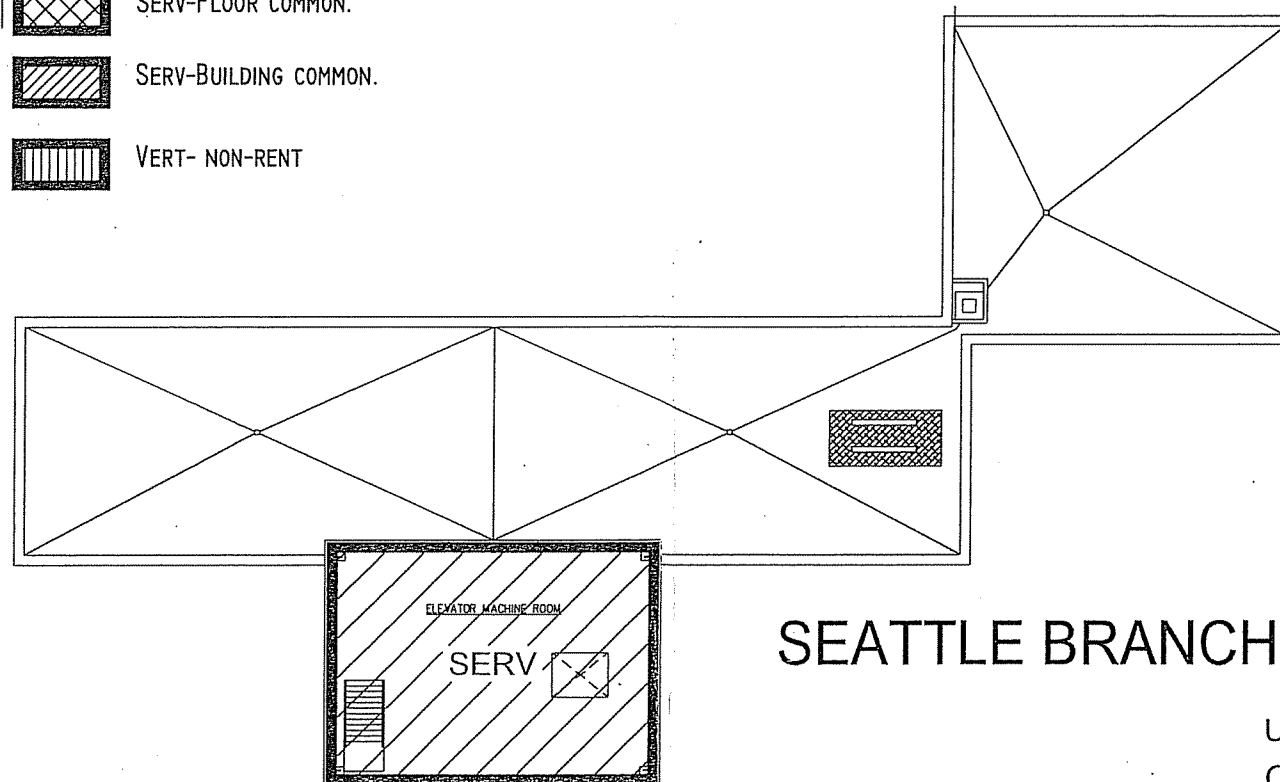
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Attachment 4

Sample Location Drawing

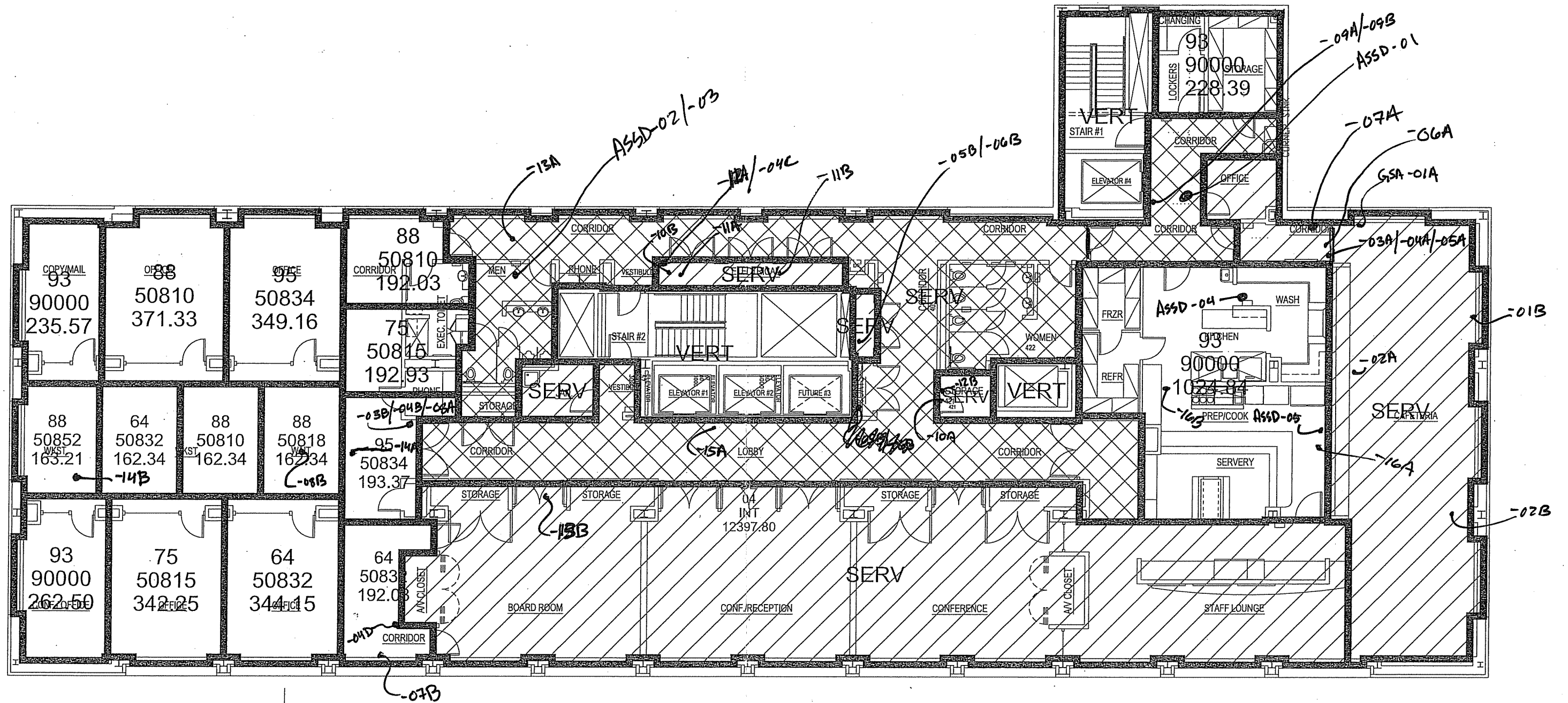


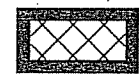


-  SERV-FLOOR COMMON.
-  SERV-BUILDING COMMON.
-  VERT- NON-RENT



SEATTLE BRANCH - PENTHOUSE & ROOF LEVEL

Updated: 09/04/2007.
Q4/ 2007



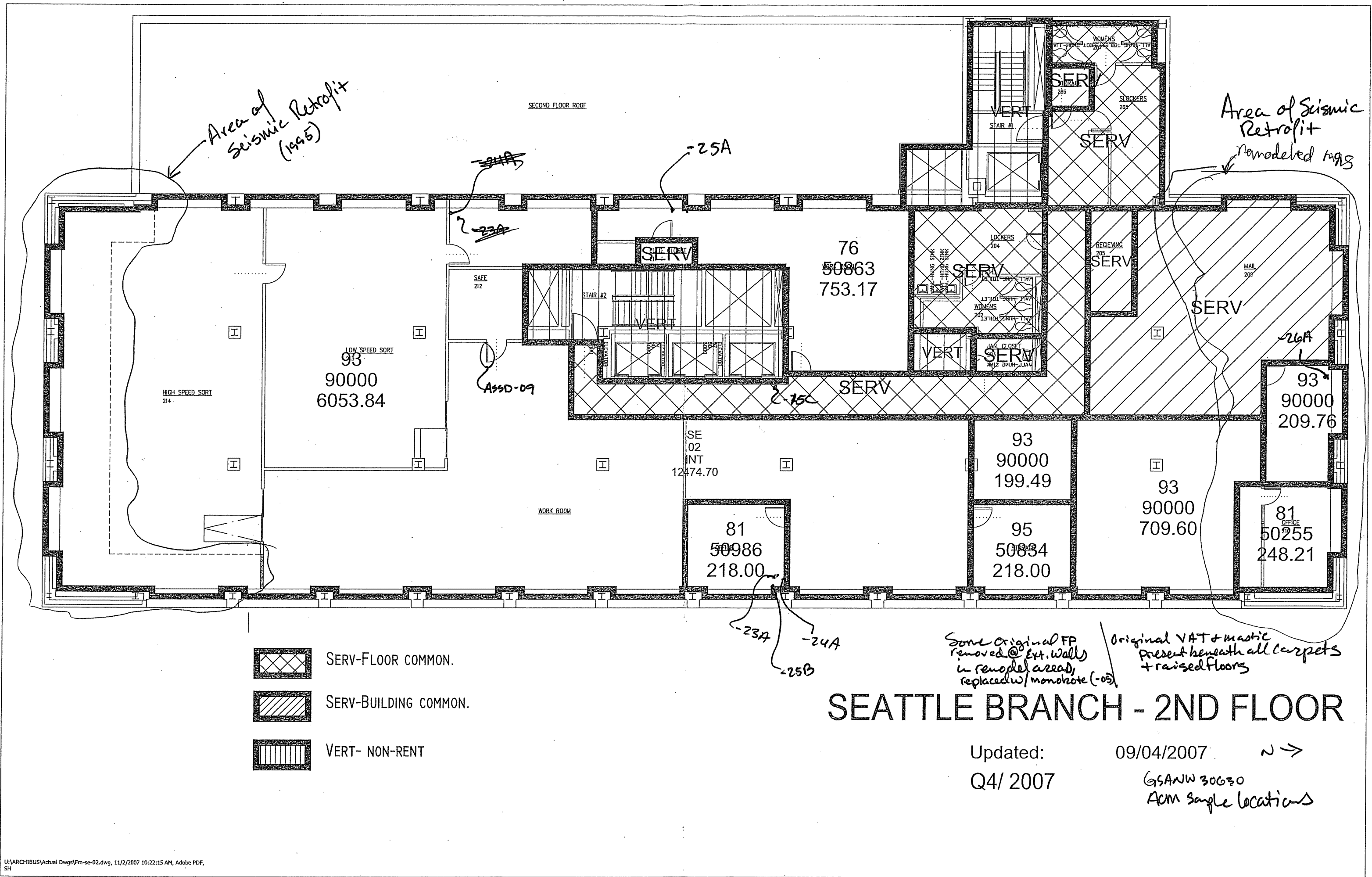
-  SERV-FLOOR COMMON.
-  SERV-BUILDING COMMON.
-  VERT- NON-RENT

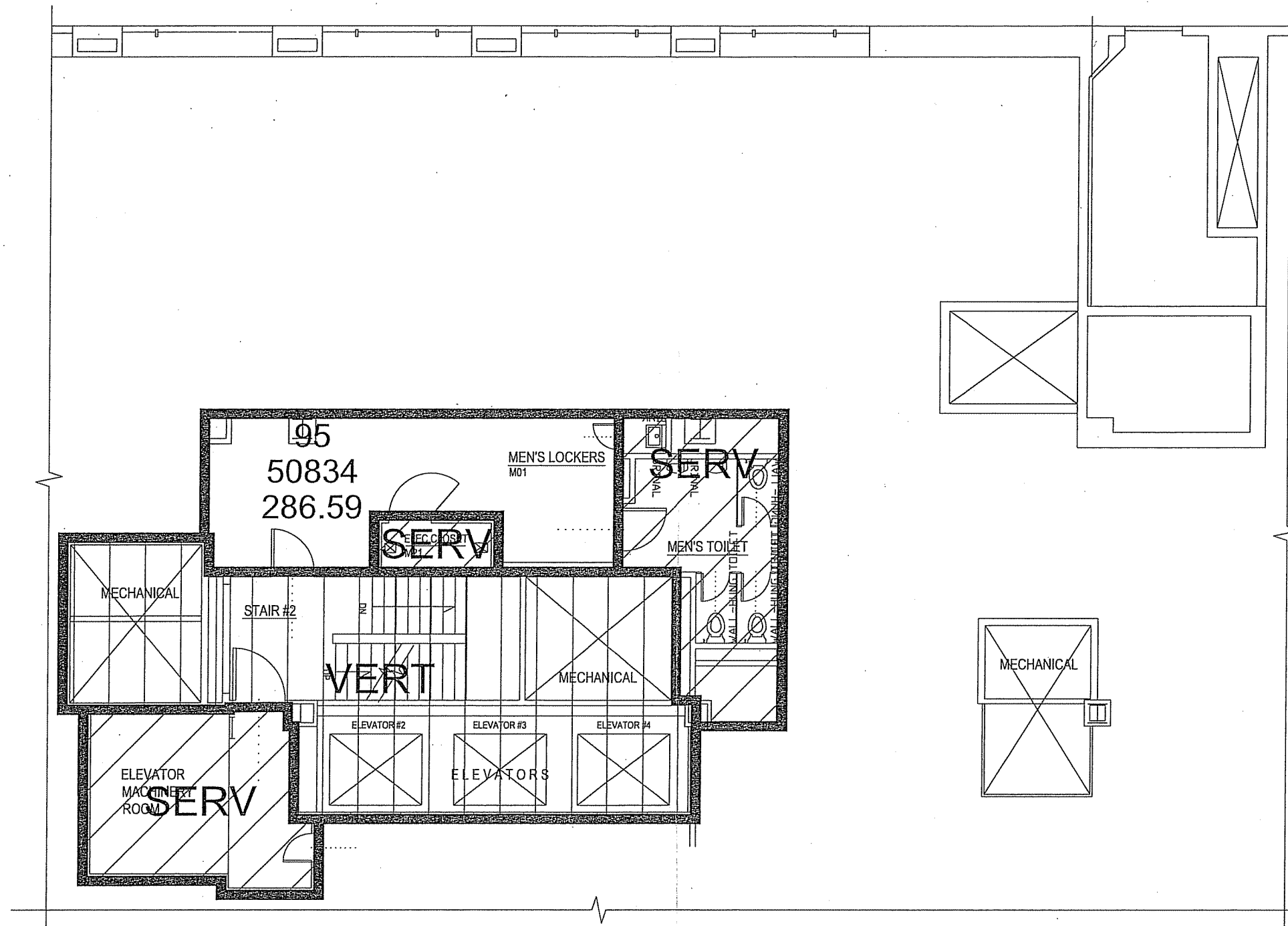
SEATTLE BRANCH - 4TH FLOOR

Updated: 09/04/2007
Q4/ 2007

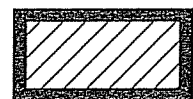
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GSA NW 30630
ACU Sample locations

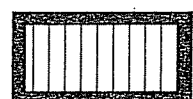




SERV-FLOOR COMMON.



SERV-BUILDING COMMON.



VERT- NON-RENT

SEATTLE BRANCH - MEZZANINE

Between FL1 + FL2

Updated:

09/04/2007

Q4/ 2007

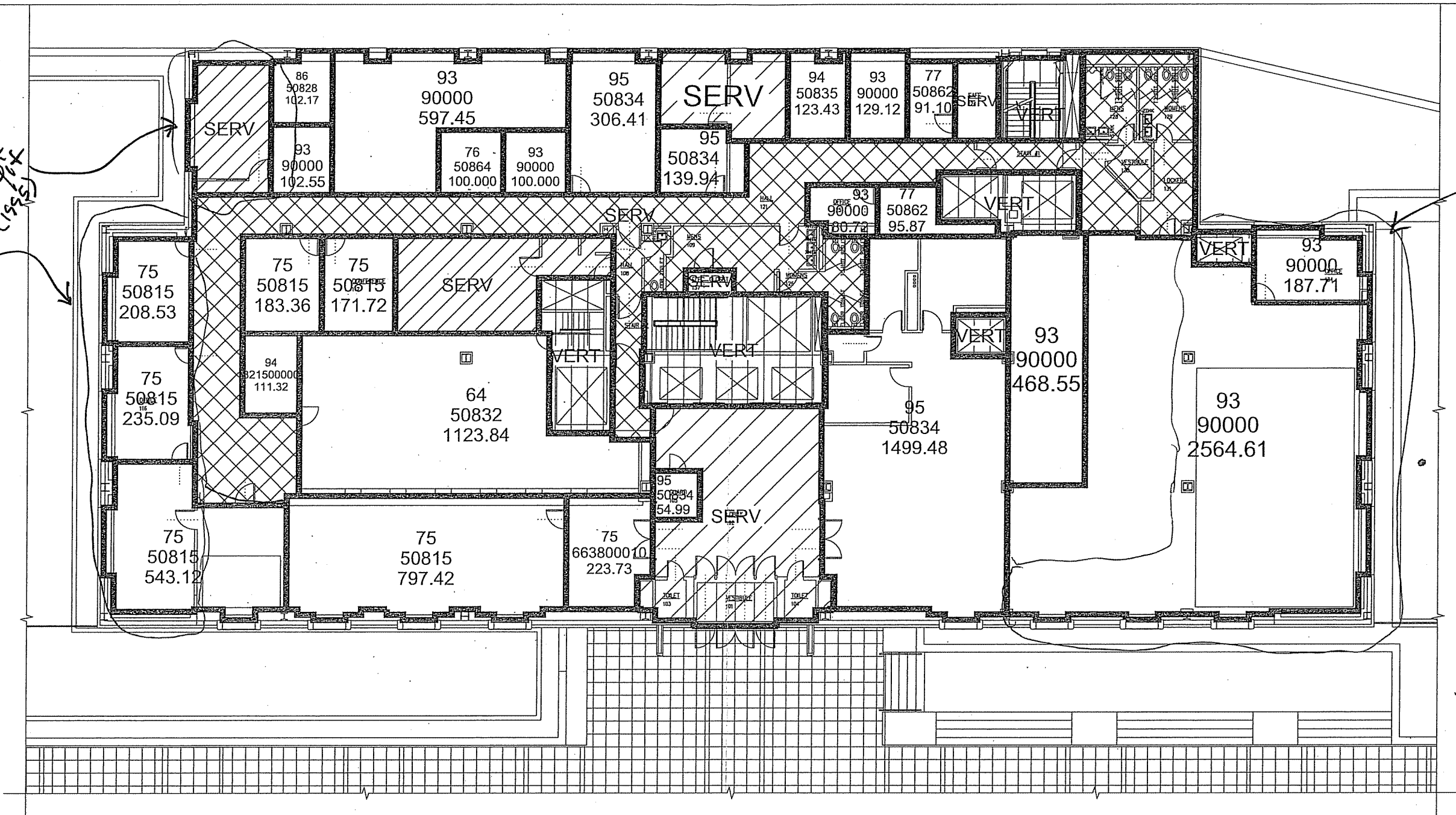
N →




GSANW30630

Acum Sample locations

Area of
Seismic
Retrofit
(1995)

Area of
Seismic
Retrofit
(1995)



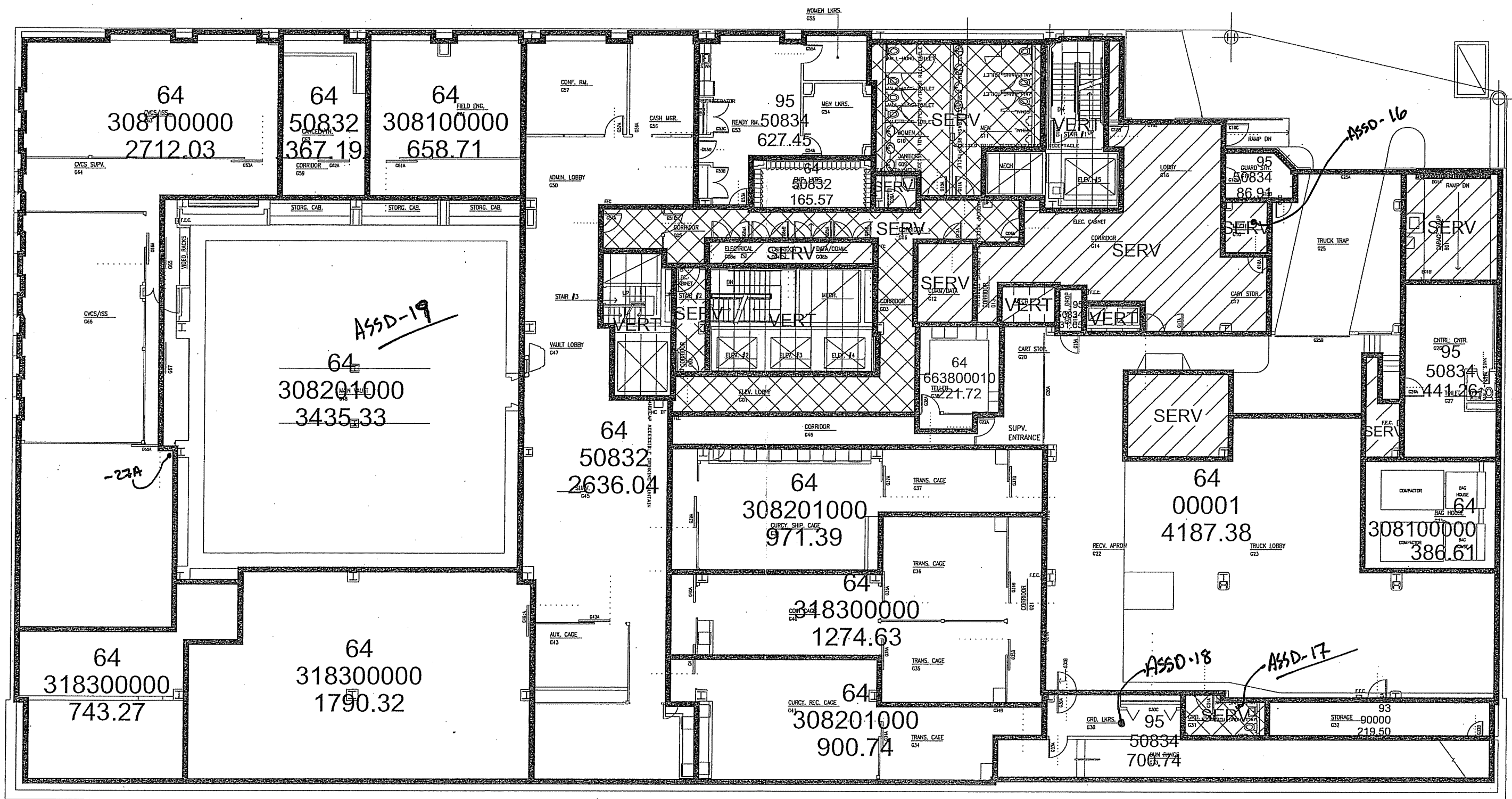
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-  SERV-BUILDING COMMON.
-  VERT-NON-RENT




SEATTLE BRANCH - 1ST FLOOR

Updated: 09/04/2007
Q4/ 2007

N →

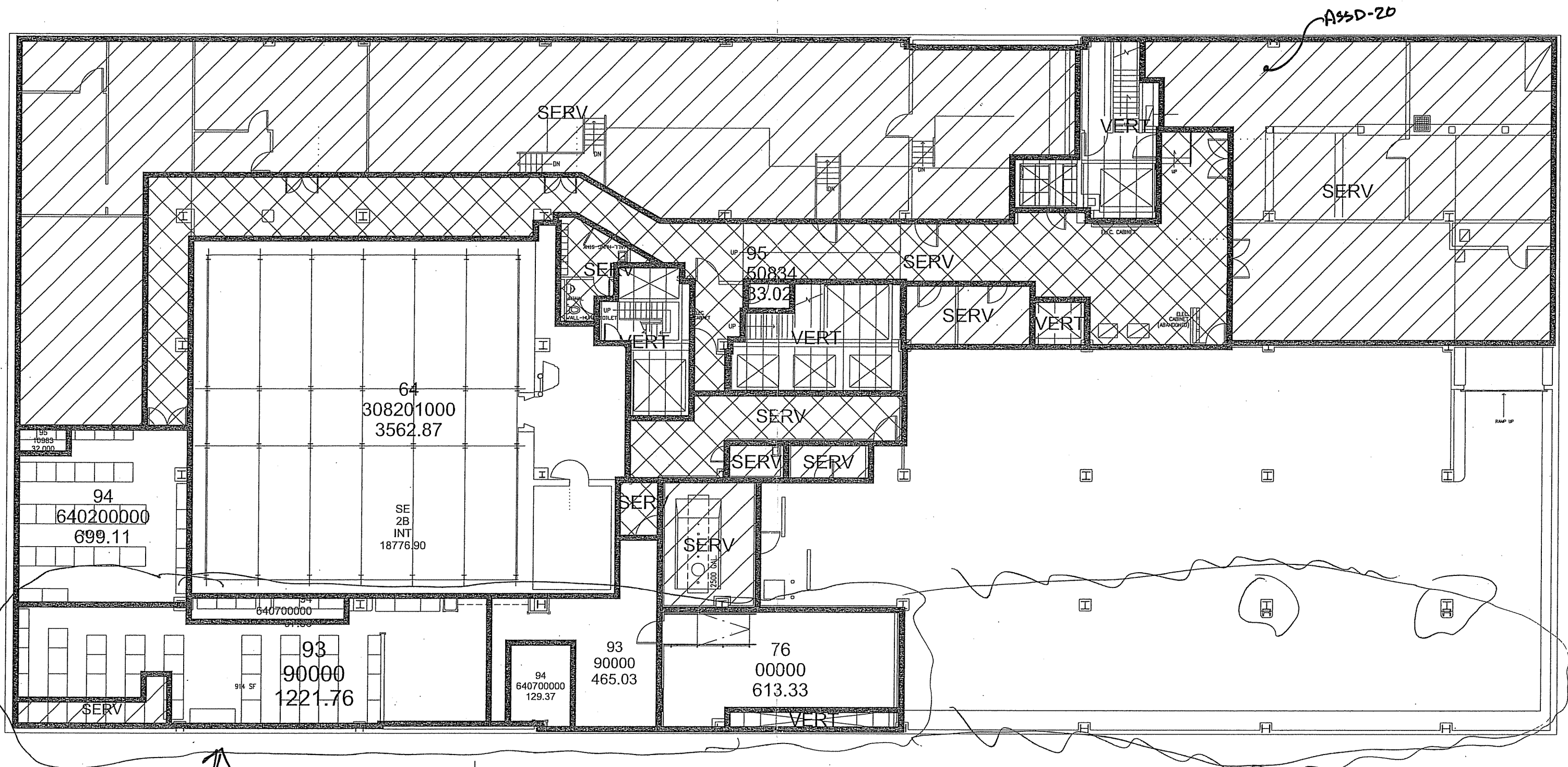
GSANW30630
ACM Sample locations






-  SERV-FLOOR COMMON.
-  SERV-BUILDING COMMON.
-  VERT- NON-RENT

SEATTLE BRANCH - GROUND FLOOR

Updated: 09/04/2007 N →
 Q4/ 2007
 GSANW30030
 AcM Sample locations



Area of Structural Reinforcement

-  SERV-FLOOR COMMON.
-  SERV-BUILDING COMMON.
-  VERT- NON-RENT

SEATTLE BRANCH - BASEMENT 2

Updated: 09/04/2007 N→
 Q4/ 2007
 GSA NW30630
 ACM Sample Locations

Attachment 5

Certifications

Certificate of Completion

This is to certify that

Emily Kahler

has satisfactorily completed

4 hours of refresher training as an

AHERA Building Inspector

in compliance with TSCA Title II AHERA 40 CFR Part 763
U.S. EPA Region 10 Accreditation #792

Course Date: 04/09/2012

Cert.# **12-0482**

Refresher required by: 4/9/2013



1730 Minor Ave Suite 900
Seattle, WA 98101 • 888.281.8858
www.rgatraining.com

4 hours of refresher training as an AHERA Building Inspector

Emily Kahler

Cert.# **12-0482**

Course Date: 04/09/2012

Refresher required by: 4/9/2013

Instructor: Ethel Kaufman

A handwritten signature in cursive script, appearing to read "Ethel Kaufman".

Training Manager: Wendy Newell
RGA Training: 206.269.6313
RGA Laboratory: 206.956.3775
RGA Consulting: 206.269.6302
Corporate Office: 510.547.7771



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Certificate of Completion

This is to certify that

John McCaslin

has satisfactorily completed

4 hours of refresher training as an

AHERA Building Inspector

in compliance with TSCA Title II AHERA 40 CFR Part 763
U.S. EPA Region 10 Accreditation #792

Course Date: 05/10/2012

Cert.# 12-0923

Refresher required by: 5/10/2013



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www.rgatraining.com

4 hours of refresher training as an AHERA Building Inspector

John McCaslin

Cert.# 12-0923

Course Date: 05/10/2012

Refresher required by: 5/10/2013

Instructor: Ethel Kaufman

Training Manager: Wendy Newell

RGA Training: 206.269.6313

RGA Laboratory: 206.956.3775

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